

Supplemental Amendment
U.S. Appln. No. 10/531,283

Atty. Dkt. Q86982

REMARKS

Claims 1-2 are all the claims pending in the application. Applicant respectfully requests that the Examiner enter and consider this Supplemental Amendment.

Claim Amendments

Claim 1 is hereby further amended to further clarify the present invention.

Claim Rejections - 35 U.S.C. § 102(e)

Claims 1 and 2 stand rejected under § 102(e) as being anticipated by Kollberg et al. (US 6,494,249; “Kollberg”). Applicants supplement their prior traversal of this rejection as follows.

First, Applicant requests that the Examiner disregard the first full paragraph on page 6 of the Amendment filed June 20, 2006. The arguments set forth therein were based on an incorrect interpretation of the Kollberg reference.

Second, Applicant respectfully submits that Kollberg fails to teach or suggest, at least, employing a linear inductor source to generate a traveling magnetic field . . . at a level substantially the same as the lateral outer ports of the submerged nozzle, wherein a double roll mode is set in the continuous casting mold, as recited in amended claim 1.

Kollberg uses inductors that generate a static magnetic field, or one that is slightly pulsatory, but always fixed in space, not a traveling magnetic field as recited in claim 1, (See Kollberg col. 4, lines 17-18). The inductors of Kollberg work as an electromagnetic brake, whereas accelerators are implemented in the present invention. Moreover, when Kollberg’s inductor is placed at the level of the exit holes of the nozzle, it does not create a double roll mode, but to the contrary, creates a simple-loop G1, G2. (See FIG. 3 or 6).

Additionally, in the one instance where Kollberg teaches to promote the creation of a secondary flow (C1, C2) in the top area of the mold (FIGS. 2, 5 or 8) to obtain a double roll configuration in the entire ingot mold area (C1, C2, C3 and C4), the inductor is in a lower position well below the level of the outlet ports of the submerged nozzle.

Thus, Kollberg fails to disclose either: (1) employing a linear inductor source at a level substantially the same as the lateral outlet ports, wherein a double roll mode is set in the continuous casing mold; or (2) employing a linear inductor source to generate a traveling magnetic field, as recited in claim 1.

Thus, Applicant submits that claim 1 is allowable over the applied reference. Additionally, Applicant submits that claim 2 is allowable, at least because of its dependency.

Claim Rejection - 35 U.S.C. § 103(a)

Claim 3 stands rejected under § 103(a) as being unpatentable over Kollberg in view of either Allberny et al or Kunstreich et al. Applicant submits that this rejection is moot in view of the cancellation of claim 3.

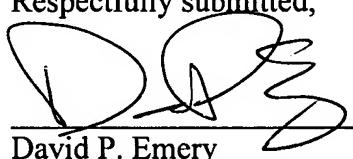
Conclusion

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

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The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,


David P. Emery
Registration No. 55,154

SUGHRUE MION, PLLC
Telephone: (202) 293-7060
Facsimile: (202) 293-7860

WASHINGTON OFFICE
23373
CUSTOMER NUMBER

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